

**Industrial Ironworker V3**  
**IRON30\_03**  
*Updated June 2013*

**Focus Statement**

An ironworker works comfortably at heights that often reach 2000 feet or higher, recognizes safety-related issues and equipment; masters proper and safe use of a variety of hand and hydraulic, pneumatic, and electrical power tools; recognizes various structural shapes, such as wide-flange beam sections and a variety of fastening materials and their proper uses; directs and assembles different types of mobile and tower construction cranes, creates and develops complex rigging plans for heavy structural steel lifts; effectively communicates hoisting operations using verbal and hand signals; plumbs and aligns steel structures to tolerances set by AISC Code of Standard Practices; fits, bolts, and welds structural members; identifies and interprets a wide variety of blueprint components; calculates weights of a variety of structural shapes, and recognizes the functions and limitations of a wide variety of hoisting equipment and welding processes.

**Overview**

- Two-hour closed-book examination
- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed

**Minimum passing score is 75.**

**Performance Verification**

A corresponding hands-on Performance Verification is available.

**NCCER Curriculum**

All NCCER knowledge assessments are referenced to NCCER's curriculum modules as listed on this specification sheet. You may order books and modules from Pearson by visiting [www.nccer.org/order-books-modules/](http://www.nccer.org/order-books-modules/).

**Assessment Development**

All questions are developed and approved by subject matter experts under the direction of NCCER.

**Credentials**

Upon successful completion of the knowledge assessment or performance verification, credentials can be viewed and printed by the individual or assessment program through their NCCER Account.

**Score Report and Training Prescription**

Each candidate will have online access to their assessment results including their overall score and recommended training through their NCCER Account.

**Written Assessment Contents:**

Module ID	Content Domain/Module Title	Number of Items
29102-09 29106-09 30112-11	Cutting & Welding	10
30106-11 30107-11 30316-12 38201-11 38301-11	Rigging	24
30105-11 30203-11 30207-11	Cranes and Forklifts	10

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**Written Assessment Contents:**

Module ID	Content Domain/Module Title	Number of Items
30109-11 30205-11 30312-12	Structural Ironworking	10
30103-11	Tools and Equipment of the Trade	5
30104-11	Fastening	5
30110-11 30208-11	Plumbing, Aligning, and Guying	7
30108-11 30204-11	Trade Drawings	5
30113-11 30206-11	Joists and Girders	5
30115-11 30201-11	Trade Math and Field Fabrication	7
30102-11	Trade Safety	5
30114-11 30304-12	Metal Decking and Stud Welding	7

**Total Number of Items**

**100**